

While loops

```
i = 1  
while i < 5:  
    print(i)  
    i += 1
```

Print Series -

5,10,15,20,25,30.....

While loops – break statement

```
secret_number=5
guess_count=0
guess_limit=3
while(guess_count < guess_limit):
    guess = int(input("Guess the number: "))
    guess_count = guess_count + 1
    if (guess==secret_number):
        print("You Win!")
        break
else:
    print("Better luck next time!")
```

For loops

```
for i in range(5): # iterates over a sequence
    print("Hello")
```

- `range(5)`: generates 0, 1, 2, 3, 4
- `range(1, 5)`: generates 1, 2, 3, 4
- `range(1, 5, 2)`: generates 1, 3

For loop with else

```
n = 23
for i in range(2,n):
    if n % i == 0:
        print("Not a prime number")
        break
else:
    print("Prime Number")
.....
```

Try with while..else also

While loops – continue statement

```
i=0
while (i<5):
    i = i + 1
    if (i==3):
        continue
    print(i)
```

While loops – pass statement

```
i=0
while (i<5):
    i = i + 1
    if (i==3):
        pass
    else:
        print(i)
```